

# AAYUSH KUMAR

C++, Python Developer – Machine Learning Enthusiast – Aspiring Data Scientist

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 [Github](#)

 [Kaggle](#)

 [Linkedin](#)

## EDUCATION

**Army institute of technology**

Bachelor of Engineering – Computer Engineering: 8.44 CGPA

**08/2023 – 07/2027**

Pune, Maharashtra

## EXPERIENCE

### Google Developers Group

Core Member ML domain

- Organized ML study jams and taught basic machine learning and data preprocessing to approximately 100 first-year students.
- Conducted “ENLIVEN” hackathon on the footsteps of Google solutions challenge where more than 400 students from all over india participated.
- Jointly Worked on an application that enables digital attendance for students using facial recognition.

## SKILLS SUMMARY

- Languages – C++, Python, C, SQL
- Tools – Jupyter, Github, Kaggle, Tensorflow, Streamlit.
- Tech Skills – Machine Learning, Deep Learning, Data Visualisation and processing, Data structures and algorithms, NLP
- Soft Skills – Public Speaking, Content Writing, Event Management.

## PROJECTS

### Crop production predictor.

[Deployed application](#)

- Developed a regression model to predict the different crop productions across various districts of states of India.
- Collected and preprocessed a dataset containing over 200000 records and performed feature engineering.
- Utilised unsupervised models like Kmeans to cluster similar crop patterns and trained multiple ensemble models To accurately predict the production.
- Achieved  $R^2$  score of 0.96. Deployed the model on cloud using Streamlit.

### PDF Professor

[Repository](#)

- Developed a machine learning model to scan pdf files and return heading and subheadings.
- Created a custom dataset by extracting information from multiple PDFs, preprocessing the data, and performing feature engineering(Word count, Font Size, Position of text on page).
- Trained different models finally settled on Random forest Classifier.
- Tested on different types of PDF files and achieved accuracy  $R^2$  score of 0.88.

### Book recommender system.

- Built a recommendation system to suggest books based on user preferences and reading history.
- Implemented collaborative filtering (using KNN).
- Processed and analysed a dataset containing book ratings, genres, and metadata for personalized suggestions.
- Achieved a recommendation accuracy of 0.7 using evaluation metrics like precision@K.

## ACHIEVEMENTS

- Submitted a research paper to ICSCIS 2025 as a conference participant.
- Competitions Contributor on Kaggle.
- 1st position in SPARK hackathon .
- 1st position in GAME-A-THON hackathon.
- Solved over 500 coding questions on various coding platforms like Hackerrank, Codeforces etc.

## CERTIFICATIONS

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| Google Cloud Computing Foundations: by Google    | 11/2023 |
| Supervised Machine Learning by Deeplearning.ai   | 02/2024 |
| Scaler data science and machine learning program | 12/2024 |